CI-FPPRO

Manual cerradura biométrica

STARLIGH SA

Importador y Distribuidor

CI-FPPRO

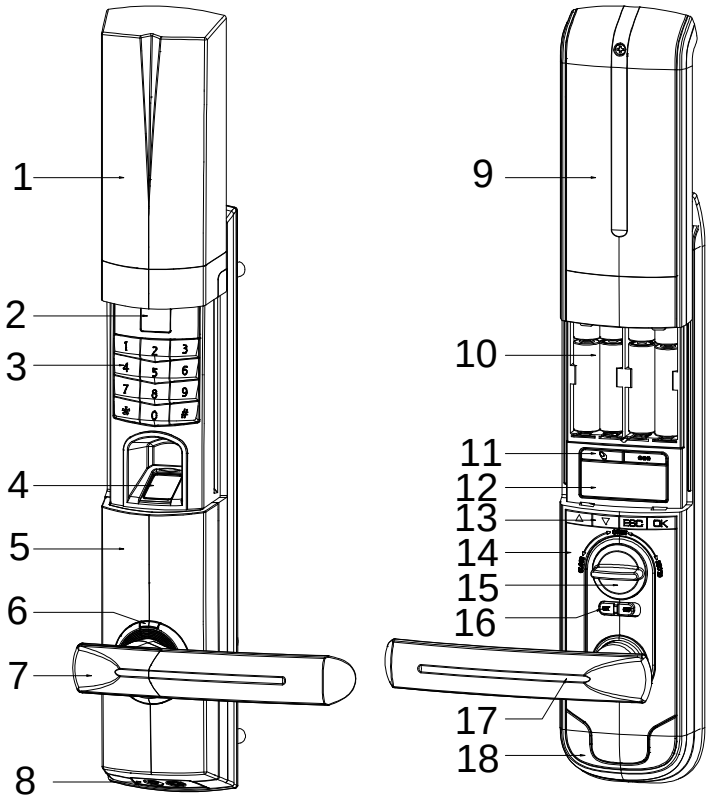
Contenido

Capitulo uno: Product Introduction 3
1.1 Product Drawings 3
1.2 Scope of Application 4
1.3 Door Handing 5
1.4 Technical Parameters 5
Capitulo dos: Operation 7
2.1 Basic Functions 7
2.2 Optional Function 8
2.3 Operation and Administration 10
Capitulo tres: Installation and Adjustment 15
3.1 Assembly Drawing -Mortise X6 15
3.2 Assembly Drawing – Mortise X9 15
3.3 Assembly Drawing – Single Latch 16
3.4 Installation 16
3.5 Notes for Installation 22
3.6 Test and Adjustment 23
Capitulo cuatro: Maintenance 23
4.1 Routine Maintenance 23
4.2 FAQ 24
Capítulo cinco: After-Sales Service 26
5.1 Warranty Principles 26
5.2 Packing List 26
5.3 List of Installation Tools 28

Product Introduction

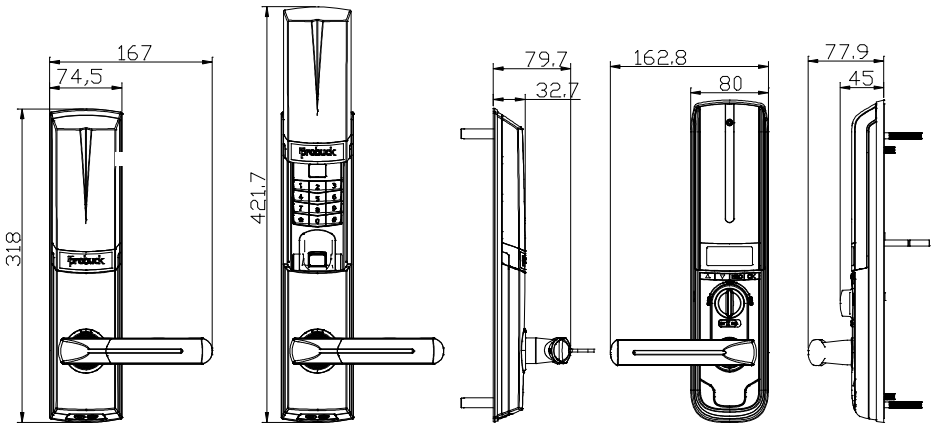
1.1 Product Drawings

1.1.1 External View



1	Sliding cover	10	Battery
2	Nixie tube	11	Clear button
3	Keypad	12	LCD
4	Fingerprint sensor	13	Keypad
5	Lock body(outdoor)	14	Back lock body (indoor)
6	Indicator light	15	Turn button
7	Handle	16	Pushing button
8	Emergency power interface	17	Handle
9	Battery-box cover 1	18	Screw cover

1.1.2 Dimension



Front view Side view Back view Side view

1.1.3 Product Features

Premium Security with Multiple Locking Methods for Multiple Users: The lock could be unlocked by fingerprint, password or mechanical key override;

Wrong Try Lockout Delay Protection;

Automatic Locking (Clutch Mechanism) and Engaging deadbolt by Lifting Lever;

Robust and Flexible Mechanical Structure with Reversible Handing;

Anti Break-in/Damage Alarm Protection;

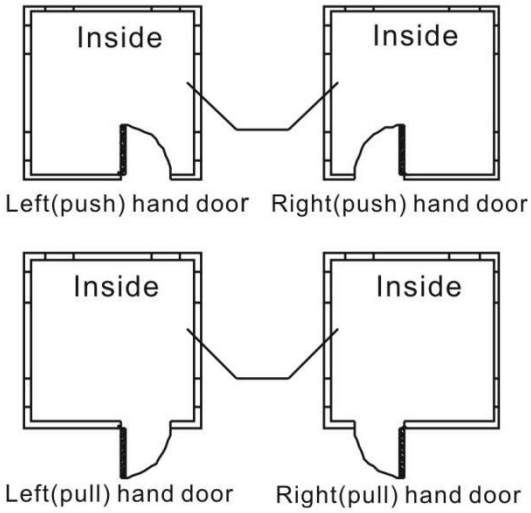
Award Winning Fast and Accurate Fingerprint Algorithm: BioSure 9.0.

Dual-circuit power supply system and control system offer more stable and high security.

1.1.4 Scope of Application

Perfect for Multi-Family, Apartment, Condominium Housing, Office Building, Government Building, Bank, Court, Hospital and Warehouse.

1.2 Door Handing



Left handed door: When you stand outside the door and the fixed hinges are on the left, the fingerprint lock is then defined as left handed door, which is further divided into left (push) handed door and left (pull) handed door.

Right handed door: When you stand outside the door and the fixed hinges are on the right, the fingerprint lock is then defined as right handed door, which is further divided into right (push) handed door and right (pull) handed door.

1.3 Technical Parameters

No.	Items	Technical Parameters
1	Static current	＜30μA
2	Dynamic current	＜200mA
3	Lifetime of battery for fingerprint	5,000 times to unlock the door
4	Lifetime of battery for password	6,000 times to unlock the door
5	Operating voltage	DC6V
6	Power supply	AA Battery
7	Emergency power supply	DC9V

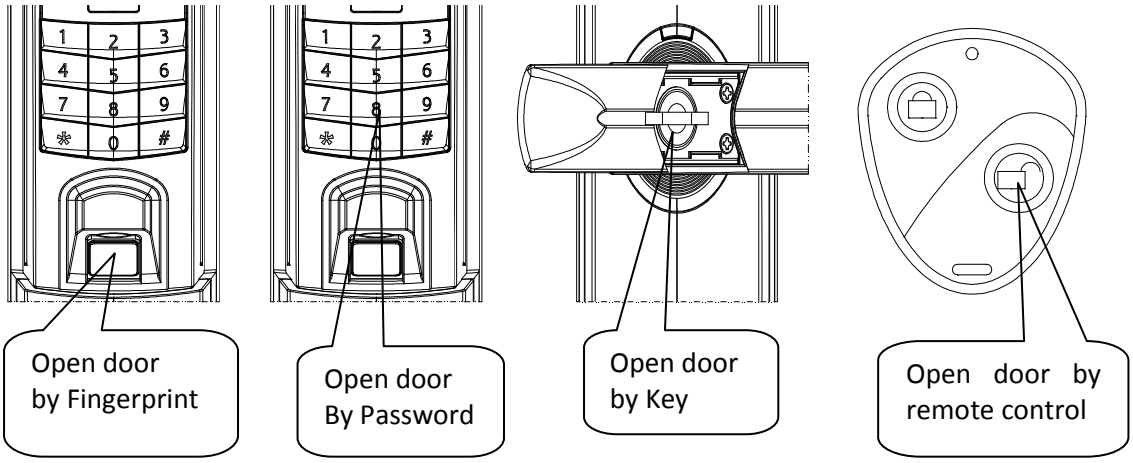
8	Low battery warning	4.8V±0.2V
9	control system	Double circuits
10	Password capacity	10
11	Fingerprint capacity	100
12	Password length	8 digits
13	Match time	≤ 1 second
14	Sensor resolution	500dpi
15	Contrast mode	1 ： N
16	FRR	≤1%
17	FAR	≤0.0001%
18	Search angle	360°
19	Fingerprint update model	Auto update
20	Light interference	Avoid strong direct light.
21	Operating temperature	-10□~55□
22	Operating humidity	10%~90%
23	Open door direction	Left handed and right handed

(Note: Parameters subject to change without prior notice)

Operation

2.1 Basic Functions

2.1.1 Unlock Mode



2.1.2 Full Engagement

Square deadbolt will be engaged by lifting the handle upwards.

Note: Additional deadbolt can be engaged by turning thumbturn inside and can't be engaged from outside.

2.1.3 Passage Mode

Setting: After the registered user login, then press "#" , the passage mode will be activated and the lock will be deactivated.

Note: the buzzer will sound long beep upon setting succeed and the LED indicator flash every 3 seconds.

Cancellation: Passage mode will be cancelled by unlocking with fingerprint or password, or by pulling the handle upwards.

2.1.4 Alarm Functions

（1） ***Spring latch Alarm***

If the door is not properly closed and the spring latch is not fully engaged, alarm will beep.

（2） ***Low-Voltage Alarm***

When the batteries go flat, the buzzer will give off warning tone of "beep, beep……", and the red indicator will flash. Then you should replace batteries immediately.

（3） *Tamper Alarm*

When the lock is tampered, the buzzer will give off alarm sound of “beep, beep……”

（4） *Pseudo Password Alarm*

Upon inputting the wrong password consecutively 3 times, the buzzer will give off alarm sound “beep, beep……” and the keypad will automatically lockout for 15 minutes. A registered fingerprint could disarm the alarming.

2.2 Optional Function

2.2.1 LCD

LCD function only available for the lock with LCD configuration.

（1） *LCD Start-up Interface*

Input the administration password by page up/down button and press "OK" to confirm each input, then you can enter the menu for management operation.

（2） *Clock Setting*

Set the current time by Page Up/Down button.

（3） *Language Setting*

Switch between English and Chinese by the Page Up/Down button .

（4） *Fingerprint Management Function*

Increase & deleting fingerprints are available.

User ID with “*” mark means the fingerprint existed in the lock and can be deleted;

User ID without "*" mark means the User ID is available for new user.

（5） *Password Management Function*

Increase & deleting password are available.

User ID with “*” mark means the passwords existed in the lock and can be deleted;

User ID without "*" mark means the User ID is available for new user.

（6） *Unlock record tracking*

“View Log” can check the latest 200 pieces unlock logs; “Clear Log” will clear all unlock logs. In the logs: “PW” means the logs unlock by password,

"FP"means the logs unlock by fingerprint.

2.2.2 Unlock by Remote controller

The function is only available for the item equipped with remote controller.

Press the unlock button of the registered remote controller, the door will open;

Press the close button, the door will close.

The remote control distance is within 30 meters in open areas.

2.3 Operation and Administration

2.3.1 Administration Password/Fingerprints/Remote Controller

Objective	Procedures	Phenomena (when operates successfully)
Clear All Fingerprints	(1)Remove the battery cover;	
	(2)Press and Hold down the fingerprint button for 10 seconds.	The buzzer sounds a long beep, the nixie tube displays “00”, the fingerprint acquisition lights on, and the green indicator lights on.①
Reset administration password	(1)Remove the battery cover;	
	(2) Press and Hold down the password button for 10 seconds;	The buzzer sounds a long beep, the keypad lights on and the number “0” flashes on the nixie tub.
	(3)Input administration password;②	
	(4)Press the # button.	The buzzer sounds a long beep.
Add user password	(1)Input administration password;	The buzzer sounds a long beep, and the green indicator lights on.
	(2)Input user password②;	
	(3)Press the # button.	The buzzer sounds a long beep.
Delete user password	(1)Input administration password;	The buzzer sounds a long beep, and the green indicator lights on.
	(2)Input the user ID need to delete;	
	(3)Press the # button.	The buzzer sounds a long beep.
Add fingerprint(1) (administration fingerprint and user	(1)Input administration password;	The buzzer sounds a long beep, and the green indicator lights on.
	(2)Press the # button;	The nixie tube displays a piece of user ID.

fingerprint)	(3)The lock will automatically generate a piece of user ID , the user ID display on the nixie tube;③	
	(4)Press the # button;	The fingerprint sensor lights on.
	(5)Collect the fingerprint.④	The buzzer sounds a long beep, and the green indicator light is on.
Add fingerprint (2) (user fingerprint only)	(1)Verify the administration fingerprint;	The buzzer sounds a long beep,the motor rotates.
	(2)Press the # button;	The nixie tube displays a piece of user ID.
	(3)The lock will automatically generate a piece of user ID, the user ID display on the nixie tube;	
	(4)Press the # button;	The fingerprint acquisition lights on.
	(5)Collect the fingerprint.	The buzzer sounds a long beep, and the green indicator light is on.
Delete fingerprint(1) (administration fingerprint and user fingerprint)	(1)Input administration password;	The buzzer sounds a long beep, and the green indicator light is on.
	(2)Press * button;	The nixie tube displays a piece of user ID.
	(3)Input the user ID which need to be deleted;	The nixie tube displays the user ID which need to be deleted.
	(4)Press the # button.	The buzzer sounds a long beep, and the green indicator light is on.
Delete fingerprint(2) (user fingerprint only)	(1)Verify the administration fingerprint;	The buzzer sounds a long beep, the motor rotates.
	(2)Press * button;	The nixie tube displays a piece of user ID.
	(3)Input the user ID which need to be deleted	The nixie tube displays the user ID that you input to be deleted.
	(4)Press the # button.	The buzzer sounds a long beep, and the green indicator light is on.
Objective	**Procedures**	**Phenomena (when operates successfully)**
Add remote controller⑤	(1)Input administration password	The buzzer sounds a long beep, and the green indicator light is on
	(2)Press “9” button for 5 seconds	The buzzer sounds a long beep, and nixie light displays “P0”
	(3)Press any button on the remote controller	The buzzer sounds long “beep……”
Delete remote controller	(1)Input administration password	The buzzer sounds long “beep……” and the green indicator is on.
	(2)Press “7” button for 5 seconds	The buzzer sounds long “beep…..” and nixie light displays “00”

Important Note:

① The LED indicator and sounds instruction: When an operation succeed, the buzzer will sounds long beep, and the green indicator light on; when an operation failed, the buzzer will sounds short beep, and the red indicator lights on.

② **The default admin password is 00123456.** The password is composed of 8 digits, with 2 digits user ID and 6 digits password. The user ID 00 is defaulted for administrator only, the user ID 01~09 for normal user.

③ The User ID No. will be generated automatically by the system. Pressing "#" to confirm the new ID No.; You can also input a new user ID No. manually.

④ Method to collect fingerprint: when the fingerprint sensor lights on, put finger on the sensor. When the fingerprint sensor flash, take away the finger; repeat the operation for 3 times. The buzzer sounds long beep and the green indicator is on, which means fingerprint be collected successful.

It is allowed max 10 remote controller, The user ID No. Is from P0 to P9.

2.3.2 Password/Fingerprints/Remote Controller Permission

Item	Amount	User ID	Permission
Administration Password	1 group	00	Add/delete user password, administration fingerprint and user fingerprint
User password	9 groups	01-09	Open the door
Administration fingerprint	1	00	Add /delete user fingerprint; open the door
User fingerprint	99	01-99	Open the door
Remote controller	10	P0-P9	Open door, close door(the handle has returned)

2.3.3 Unlock Method

Unlock method	Procedure	Phenomenon (when the door is opened successfully)
Unlock by fingerprint	(1)slide up the sliding cover	Fingerprint acquisition light is on.①
	(2)testify the registered fingerprints	The buzzer sounds long "beep, beep…" and displays the user ID②. The green indicator light is on and the motor rotates.
	(3)push down the handle to open the door	

Unlock by password	(1)slide up the sliding cover	
	(2)input the registered password	The buzzer sounds long “beep, beep…” and displays the user ID. The green indicator light is on and the motor rotates.
	(3)push down the handle to open the door	
Unlock by remote controller	(1)press opening button	The buzzer sounds long “beep, beep…” and the green indicator light is on.
	(2)push down the handle to open the door	
Unlock by mechanical key	(1)open exterior handle sliding cover③	
	(2)insert the key and rotate it④	
	(3)push down the handle to open the door	

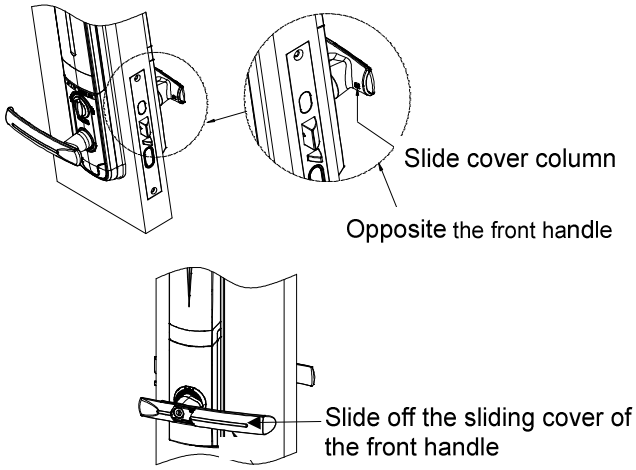
I

Important Notice:

① Press# button also can activate the fingerprint sensor when it time out.

② When verify the administration fingerprint, the displays will show “00” and “FP”.

③ Cylinder Hole: The cylinder is inside the level, press down the switch and slid the cover, the cylinder will appear(Refer the photos as below)

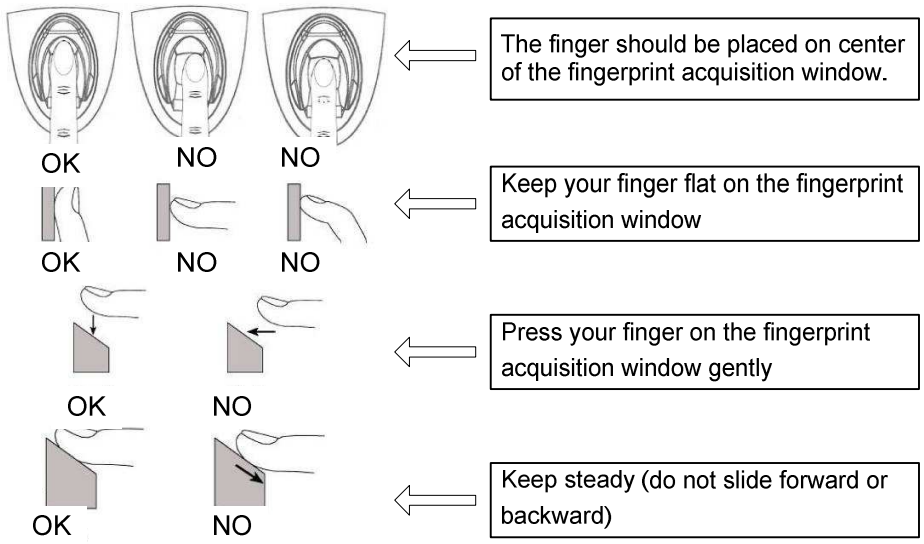


④ Method to rotate key: rotate the key by 90°, Then push the level downwards to unlock the door.

2.3.4 Points of Fingerprint Collection

The fingerprint center contains most information of the image. When colleting the fingerprints during the registration and verification, please press your finger correctly.

Method: Put your finger on the fingerprint collection window with moderate touch, and the finger should be flat as much as possible as the following illustrations shows:



2.3.5 Use of Emergency Battery

In case of battery depletion, an external 9V battery (6F22, 9V) could be used as an emergency power supply. Connect it via power interface at the bottom of the front lock body to supply power and unlock the door.

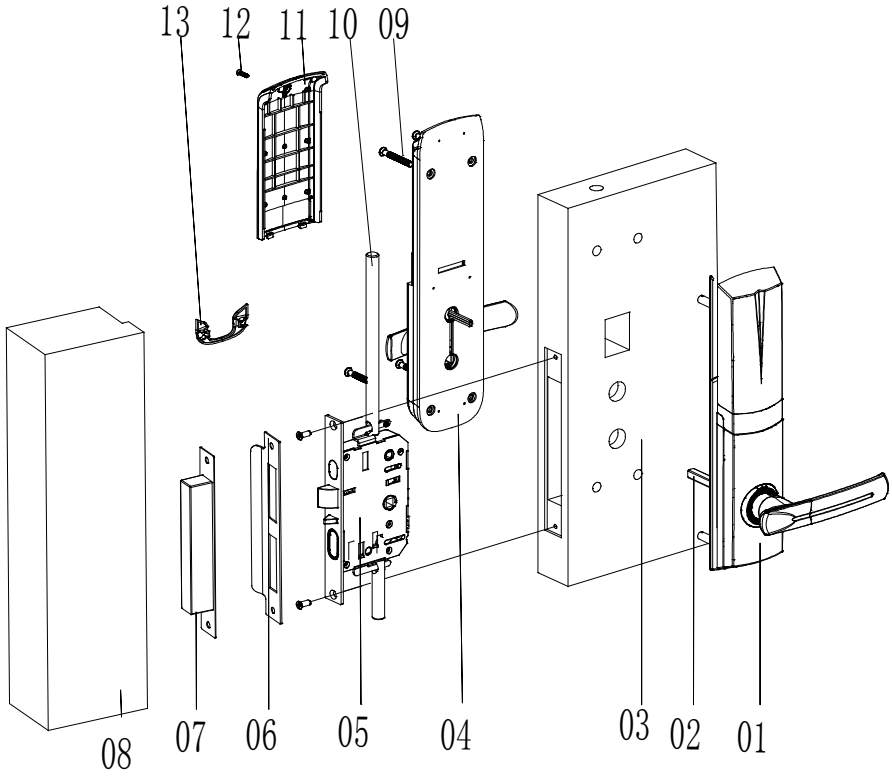
2.3.6 Battery Installation

① Method to install batteries: unfasten the screws and open the battery box cover; put 4PCS AA1.5V batteries into the battery box; put the cover back and fasten the screws.

② Notice for the use of battery: The batteries should be taken out if the lock is unused for a long time; do not mix the used and new batteries together; pay attention to the positive and negative poles of the batteries; dispose the batteries in accordance with the local regulations for environment protection.

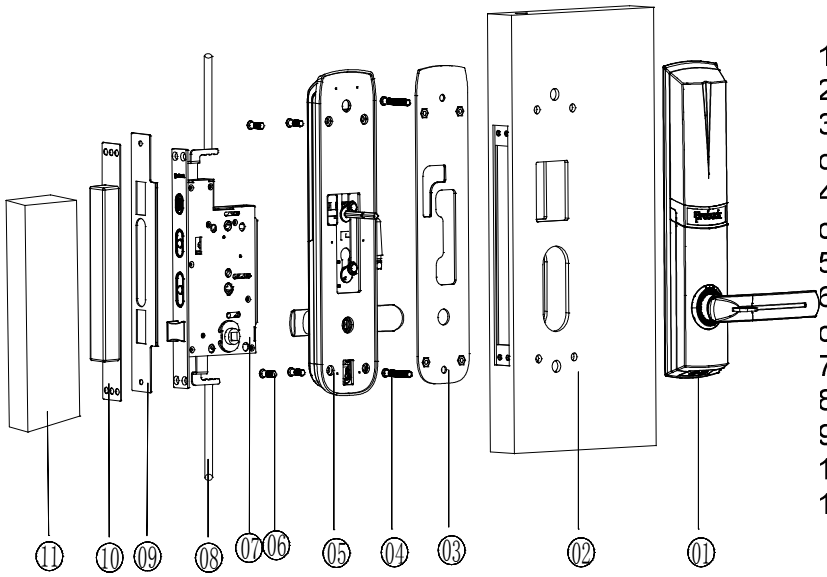
Installation and Adjustment

3.1 Assembly Drawing -Mortise X6



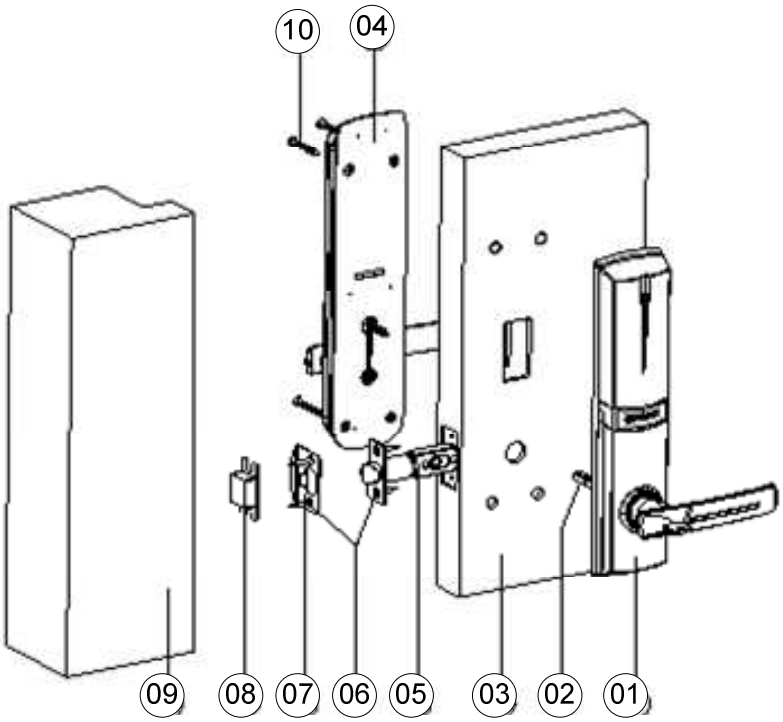
01 Exterior lock body
02 Big square shaft
03 Door
04 Interior lock body
05 Lock cylinder
06 Striking plate
07 Striking box
08 Door frame plate
09 Screw
10 Top bar
11 Battery cover
12 Screw
13 Screw Plug

3.2 Assembly Drawing – Mortise X9



1 Front lock body
2 Door
3 Fixing plate assembly of back lock body
4 Cross recessed raised countersunk head screw
5 Back lock body
6 Cross recessed raised countersunk head screw
7 Lock cylinder
8 Top and bottom bars
9 Door stopper plate
10 Door striking box
11 Door frame

3.3 Assembly Drawing – Single Latch



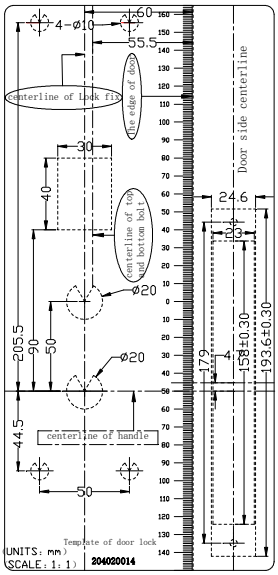
01 Exterior lock body
02 Big square shaft
03 Door
04 Interior lock body
05 Lock cylinder
06 Countersunk head tapping screw
07 Door striking plate
08 Door striking box
09 Door frame
10 Cross recessed raised countersunk head screws

3.4 Installation

3.4.1 Installation-Mortise X6

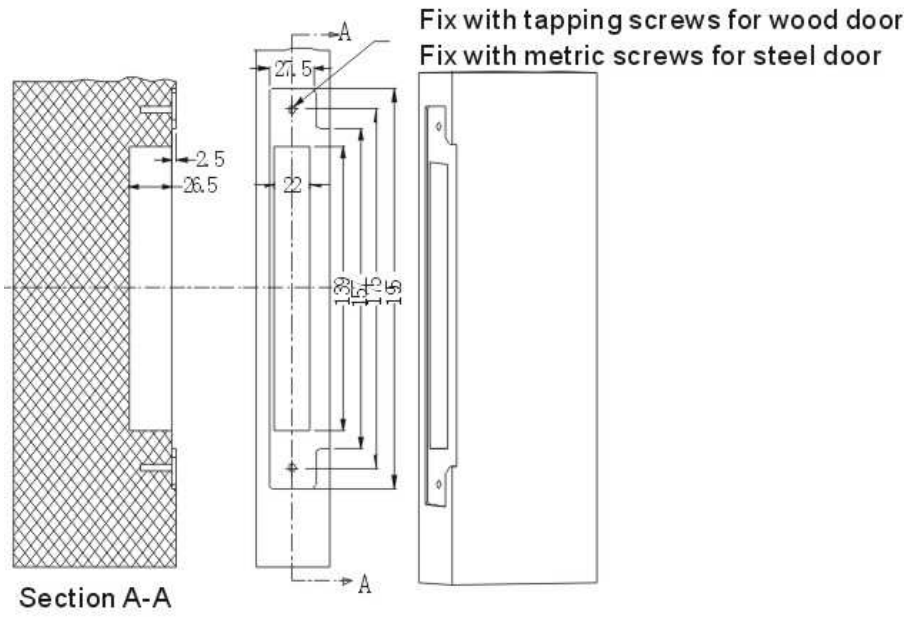
(1) ***Step 1 Template of Lock***

The product can be used on wooden doors and metal anti-burglar doors. The hole pattern figure is as follows (please following the 1:1 hole cutting template in the packing list):



(2) *Step 2 Template of Strike Box*

Drill the mounting hole of door striking case according to the following figure. The height should be in accordance with the door lock.



(3) *Step 3 Installation*

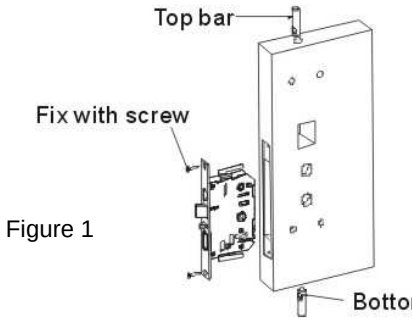
<table>
<tr>
<td> 

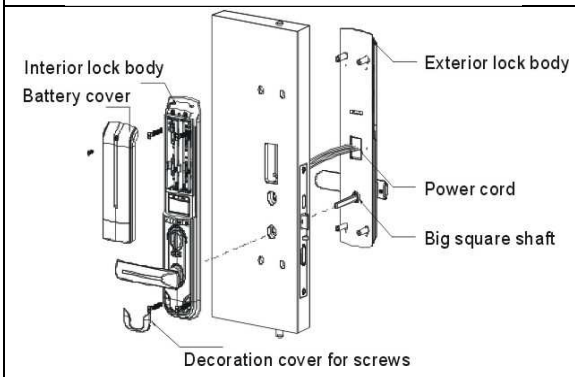
Figure 1</td>
<td>(1) Fix the lock cylinder, top and bottom bars to the door panel with screws.</td>
</tr>
<tr>
<td> 

Figure 2</td>
<td>(2) As shown in figure 2, pass the power cord of lock body trough the hole to behind the door and mount the big square shaft to the door hole in alignment with the cylinder bore, and connect the power cord. Mount the square shaft of interior lock body handle in alignment with the big square shaft and the small knob in alignment with the cylinder bore. Fix the exterior and interior lock body with 4 screws through the holes behind. Then cover the battery cover and decoration cover of screw.</td>
</tr>
</table>

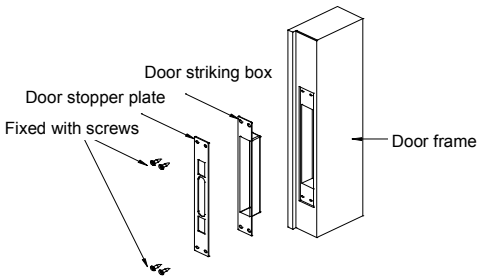
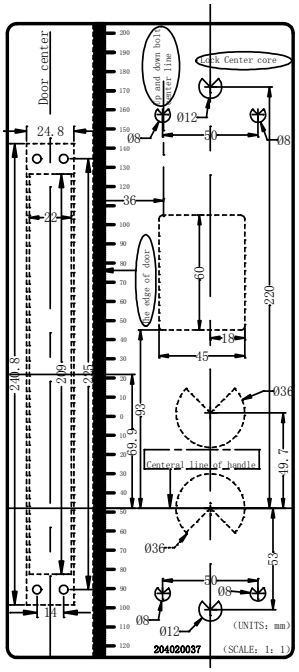


Figure 3

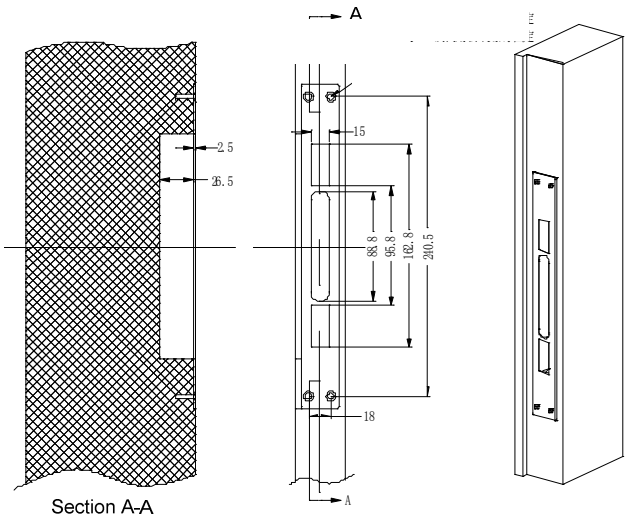
(3) Mount the door striking box to the door frame and mount the door stopper plate and fix them with screws. Inspect whether the lock cylinder can move smoothly at last. See Figure 3.

3.4.2 Installation – Mortise X9

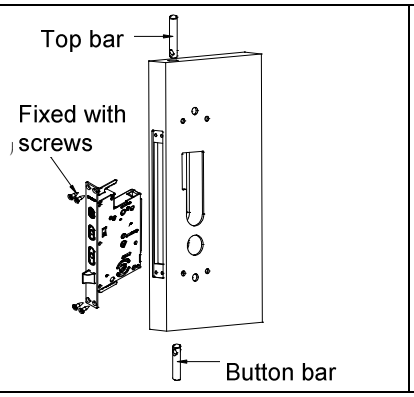
(1) Step 1 Template of Lock



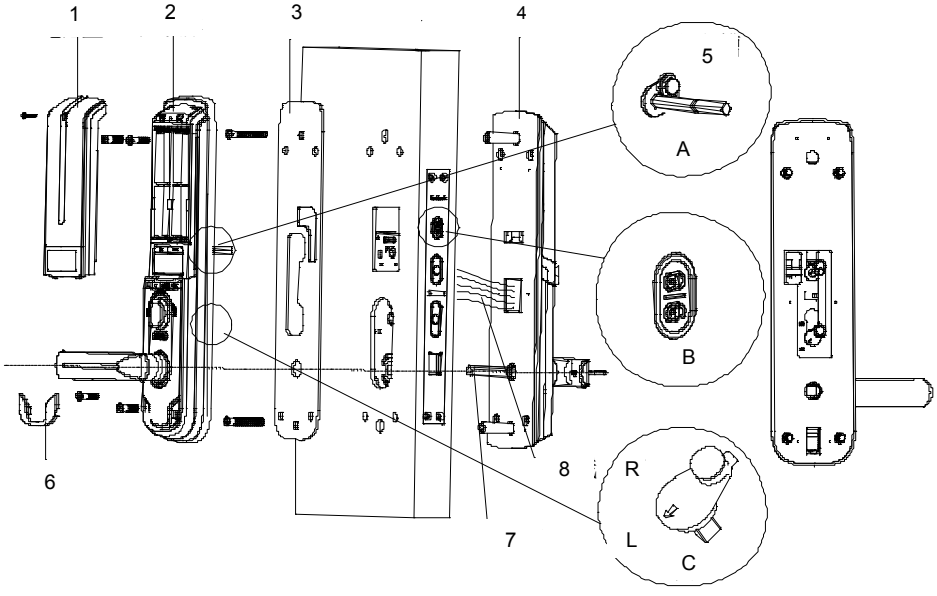
(2) Step 2 Template of Strike Box



(4) *Step 3 Installation*

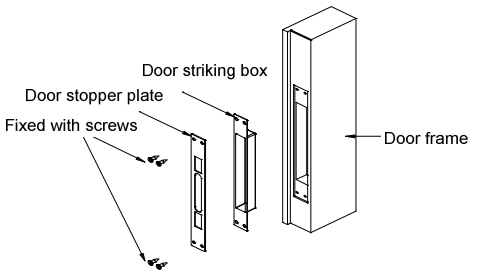


(1) Insert the lock cylinder, top bumper and bottom bumper into the door and fix it with screws as shown in Figure 1.



1 Battery cover 2 Back lock body

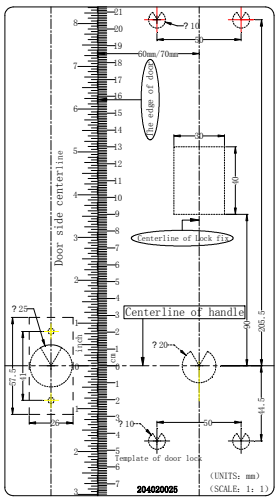
3 Fixing plate assembly of back lock body 4 Front lock body 5 Undercut groove 6 Decorative box cover 7 Big square shaft 8 Power cords (2) If the door thickness is below 50mm(as shown in Figure A),cut from the undercut groove with a sacksaw; if the door thickness is above 50mm, no need to cut. (3) As shown in Figure2, pass the power cords through the hole for it, and insert the big square shaft into the hole of the lock cylinder, and connect the power cords. Then fix it with 2 screws on the fixing plate of the back lock body surface.
(4) As shown in Figure B, the small square tongue must return to the lock body. (5) As shown in Figure C, if open the door from the left, the turn button of the front lock body will turn downward and the arrowhead point left; if open the door from the right, the turn button of the front lock body will turn downward and the arrowhead point right. (6) Insert the turn button fork on the back lock body into the hole for the small square tongue, and connect the power cords and fix it with 4 screws. Install batteries, battery box cover and decorative box cover.



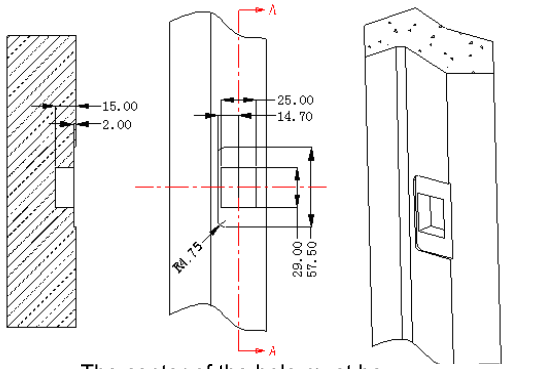
(7) Insert the door striking box and door stopper plate into the door frame, and fix them with 4 screws and check as shown in Figure 3.
Then check if the lock-tongue can extend and retract freely. The tapping screws are for the wooden door, and the metric screws are for the iron door.

3.4.3 Installation – Single Latch

(1) Step 1 Template of Lock



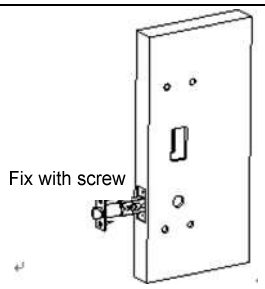
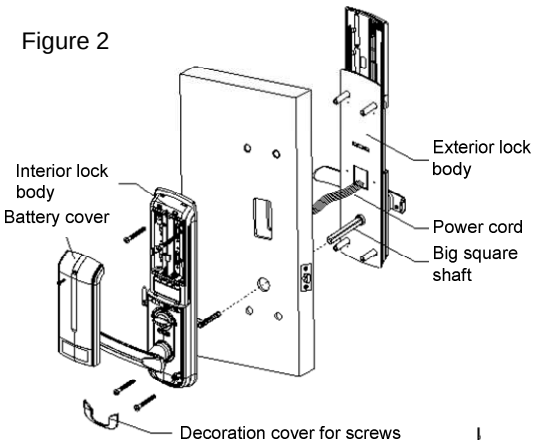
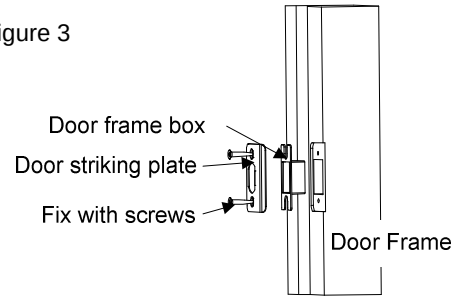
(2) Step 2 Template of Strike Box



The center of the hole must be match with the center of the lock cylinder.

Door Frame

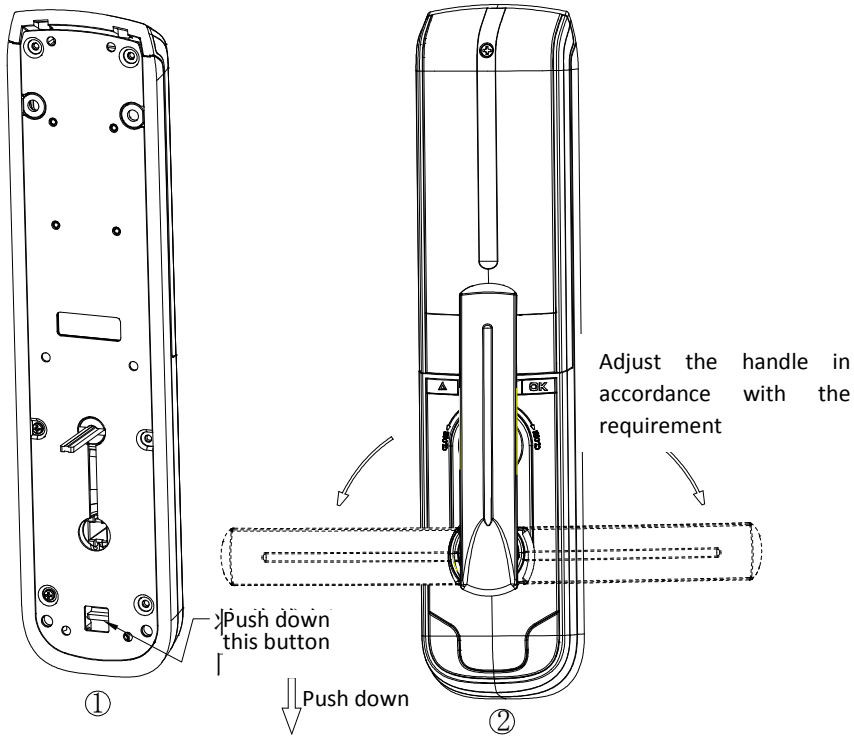
(3)Step 3 Installation

Figure 1  	(1) Fix the lock cylinder as shown in Figure 1.
Figure 2  	(2) As shown in figure 2, pass the power cord of lock body trough the hole to behind the door and mount the big square shaft to the door hole in alignment with the cylinder bore, and connect the power cord. Mount the square shaft of interior lock body handle in alignment with the big square shaft and the small knob in alignment with the cylinder bore. Fix the exterior and interior lock body with 4 screws through the holes behind. Then cover the battery cover and decoration cover of screw.
Figure 3  	(3) Mount the door frame box to the door frame and mount the door striking plate and fix them with screws. Inspect whether the lock cylinder can move smoothly at last. See Figure 3.

3.5 Notes for Installation

① Check your door thickness before installation. Applicable door thickness for the lock: 40-100mm(Mortise). 35~80mm(Single Latch)

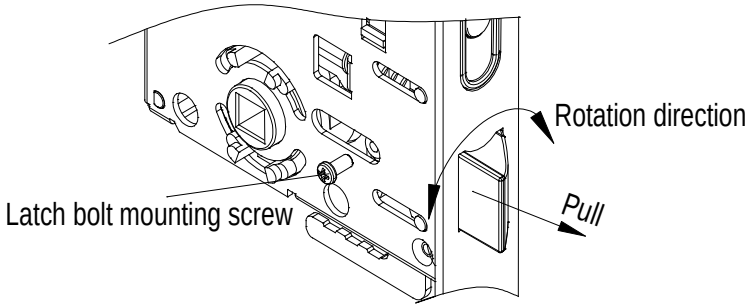
② The interior level can be easy to configure the direction to left or right by push the button in the lock back side.



③ When fixing the front and back lock body, do not press the internal connecting cable.

④ During installation, please handle the door lock with care to avoid scratching the surface.

⑤ Before installing the lock cylinder 6 or lock cylinder9, check the direction of the latch bolt, if it is in the wrong direction, unfasten the screws, and pull the latch bolt out and rotate it by 180 degree, then install it.



3.6 Test and Adjustment

To test and adjust the door lock according to the contents contained in Chapter 2 till the operation success and lock working well.

Maintenance

4.1 Routine Maintenance

(1) The lock face is prohibited from contacting with corrosive substances so as not to damage the prevention layer of the lock face and affect the glossiness of lock face.

(2) The handle is a key part of the door lock, and its smooth operation will directly influence the use of the door lock. Never hang any objects on the handle.

(3) If the door is deformed, the friction of the combination latch bolt into the door frame case will be enlarged and the bolt cannot extend fully. The position of door striking plate should be adjusted accordingly in this case.

(4) In case that the fingerprint reader window is covered with dirt or wet air, clean it with a dry and soft cloth.

(5) When low battery alarm is on, please replace the batteries immediately to ensure the normal use of door lock.

(6) Please keep the mechanical key well stored.

(7) Fingerprint reader surface is prohibited from scratching by any sharp objects including fingernail.

(8) Finger should be placed flatwise in fingerprint reader surface for fingerprint registration.

(9) If the rotation of lock is inflexible or the lock cannot keep maintain the correct position, you should ask the professionals to fill the part of lock cylinder with mechanical lubricating oil.

(10) Always keep the transmission part of the lock body with lubricant to maintain its smoothness and extend the service life of the transmission part. It is recommended to inspect once every six months or one year, and to check whether the fastening screws are loose, so as to ensure the fastening.

(11) In the course of use of cylinder, apply a little graphite powder of pencil powder to the cylinder groove regularly (six-month or one year) or when the key cannot plug out smoothly to ensure the key can plug smoothly. However, to avoid adding any oil to lubricate so as to prevent the grease to stick the ball spring and the lock cylinder cannot rotate and cannot be opened.

4.2 FAQ

Problem	Cause	Solution
1. The fingerprint is successfully authenticated, and the green indicator lights up, but the door can not be opened.	①The lock has installation problem.	Ask a professional to check it.
	②The lock cylinder has mechanical problem, the lock cylinder cable is broken or the cable is not installed well.	
2. The door can not be opened by the mechanical key.	①It is not the correct mechanical key.	Use the correct mechanical key.
	②The lock head is damaged.	Use other ways to open the door, or ask a professional to check the door lock and replace the damaged parts.
	③The lock cylinder is damaged.	
	④The clutch has mechanical problem.	
3. Turn the exterior handle, the main lock tongue can not be inserted completely.	①Dirt is bonded on the oiled parts of the lock cylinder and the lock cylinder is blocked.	Ask a professional to check it.
	② The top and bottom bumper is loosened.	
4. Authenticate the effective password or fingerprint, and the status is normal, but the motor does not work and the door cannot be opened.	①The wire is loosened.	Ask a professional to check it and replace the damaged parts.
	②The motor has problems.	
5. When open the door by fingerprint, the red indicator lights up, the buzzer sounds, and the door can not be opened.	①The fingerprint is illegal.	Use the registered fingerprint, or open the door by password or key.
	② The fingerprint has been canceled.	
	③The finger has not been in the right position.	Put the finger in the right position and try again, o r open the door by password or key.
	④ The fingerprint has been damaged.	Register another new fingerprint (It is better to register 2 or above fingerprints for an user); or open the door

		by password or key.
	⑤The finger is too dry or too wet or too cold.	Wet or dry or warm your finger to try again; or open the door by password or key.
	⑥Apply a lot of pressure, and the fingerprint becomes deformed.	Try again.
	⑦Apply little pressure and the fingerprint does not touch the window completely.	
	⑧Influence from the sunlight.	Block the sunlight, and try again.
6. The keypad has no response.	①The batteries are used up and the positive and negative poles are reversed.	Open the door by the Emergency power supply and the mechanical key, and check the batteries.
	②After enter wrong passwords 4 times, the keypad is protected.	Enter another password 15 minutes later.
	③The connecting cable between the front lock body and the back lock body is loosened.	Open the door by the mechanical key and ask a professional to check.
7. The effective password is entered or the fingerprint is verified, the motor turns, but the exterior handle turns idly, and the door cannot be opened.	①The level is not returned back totally when verify the password or the fingerprint.	Return the level and input password or fingerprint to try again.
	②The screw for fixing the square shaft has been loosened.	Ask a professional to check the lock.
8. The door is normally opened or closed, but cannot be used normally.	①The clutch has problems.	Ask a professional to check the lock.
	②The screw for fixing the square shaft has been loosened.	

After-Sales Service

5.1 Warranty Principles

The company will provide lifetime maintenance for the products sold out. Within one year from the date of purchase, the company will provide free warranty service; and for products upon expiry of warranty, the company provides repair services with charge.

In case of one of the following cases, no free warranty service will be provided:

（1） No product warranty card or effective receipt of purchase is provided, or the warranty card and the receipt of purchase do not comply with the product ；

（2） Any damage caused by any human factor, including use under abnormal working environment, or failure to follow the instruction manual in use ；

（3） Dismantle the machine by personally, repair personally, convert the machine; maintenance under the people other than authorized unit of our company or damage out of force majeure.

5.2 Packing List

No.	Items and Names	Amount
01	Front lock body	1
02	Back lock body	1
03	Mortise	1
04	Strike plate	1
05	Strike box	1
06	Big square shaft(Optional)	1
07	Cross recessed countersunk head screw (optional) – applied to mortise X6	4
	Cross recessed countersunk head screw (optional) – applied to to mortise X9	2
	Cross recessed countersunk head screw (optional) – applied to single latch	4
08	Screws for fixing the lock cylinder and the door stopper plate (optional) - applied to	4

	mortise X6.	
	Screws for fixing the lock cylinder and the door stopper plate (optional) - applied to mortise X9.	8PCS（metal door)/ 6PCS（wooden door）
	Screws for fixing the lock cylinder and the door stopper plate (optional) - applied to single latch	4
09	Front shim plate	1
10	Back shim plate	1
11	Mechanical key	1
12	User's manual	1
13	Installation Template	1
14	Warranty card	1
15	Certificate of QC	1
16	Batteries (size AA)	8
17	Fixing plate of back lock body	1
18	Remote controller(Optional)	1

5.3 List of Installation Tools

Hammer- 1	Pencil - 1	Screwdriver-1	Chisel -1
Knife-1	Hand drill-1	Angel square-1	Tape messure-1
Alloy bit-ø12	Alloy bit-ø20	Ribbon saw-1	Extension lead-1